

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332175-840

Luminaire Tested: **S123DIW-S775D1535U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332175-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIW-S775D1535U840-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8670.3 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect

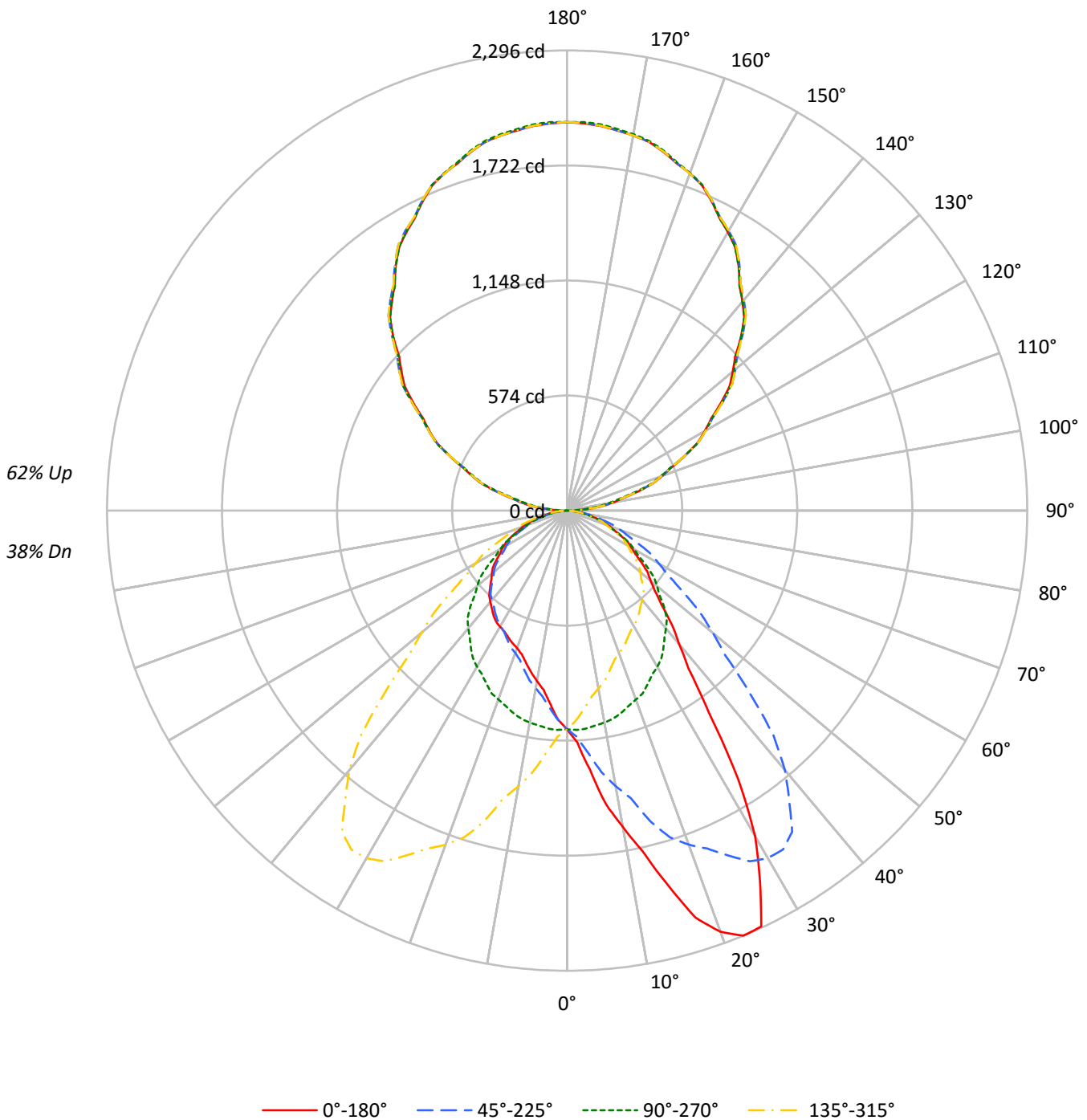
Input Watts (W): 68.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32				
2	87	80	74	69	79	73	68	63	59	56	53	47	45	42	36	34	33	27				
3	79	70	63	58	72	64	58	53	52	48	44	42	39	36	32	30	28	23				
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	28	26	24	20				
5	67	55	48	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18				
6	61	50	42	36	56	45	39	34	38	32	29	30	26	24	23	21	19	16				
7	57	45	37	32	51	41	34	29	34	29	25	27	24	21	21	19	17	14				
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	19	17	15	12				
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13	11				
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	11746	11746	11746	11746
5°	14008	11797	10454	11797
10°	17533	11737	9441	11737
15°	21504	11642	8790	11642
20°	25616	11494	8369	11494
25°	27201	11315	8276	11315
30°	23313	11184	8319	11184
35°	16215	10997	8406	10997
40°	12213	10779	8379	10779
45°	10140	10455	8273	10455
50°	9083	9791	8199	9791
55°	8492	9077	8096	9077
60°	7967	8331	8013	8331
65°	7488	7595	7755	7595
70°	7021	6754	7386	6754
75°	6288	5914	6771	5914
80°	5511	4854	5833	4854
85°	4310	3532	3915	3532



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.5	1.2
10°-20°	344.7	4.0
20°-30°	578.5	6.7
30°-40°	655.0	7.6
40°-50°	587.4	6.8
50°-60°	474.0	5.5
60°-70°	330.3	3.8
70°-80°	173.6	2.0
80°-90°	48.2	0.6
90°-100°	126.3	1.5
100°-110°	378.0	4.4
110°-120°	642.9	7.4
120°-130°	845.6	9.8
130°-140°	950.5	11.0
140°-150°	934.3	10.8
150°-160°	786.5	9.1
160°-170°	523.6	6.0
170°-180°	183.3	2.1
0°-30°	1030.6	11.9
0°-40°	1685.7	19.4
0°-60°	2747.1	31.7
0°-90°	3299.2	38.1
90°-120°	1147.2	13.2
90°-150°	3877.6	44.7
90°-180°	5371.0	61.9
0°-180°	8670.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1091	1091	1091	1091	1091	
5°	1296	1092	968	1092	1296	134
15°	1930	1045	789	1045	1930	557
25°	2290	953	697	953	2290	1004
35°	1234	837	640	837	1234	802
45°	666	687	544	687	666	527
55°	452	484	431	484	452	406
65°	294	298	304	298	294	293
75°	151	142	163	142	151	162
85°	35	29	32	29	35	42
90°	46	2	46	2	46	24
95°	119	90	119	90	119	122
105°	362	343	362	343	362	385
115°	649	647	649	647	649	642
125°	936	947	936	947	936	837
135°	1227	1229	1227	1229	1227	944
145°	1491	1491	1491	1491	1491	931
155°	1704	1707	1704	1707	1704	785
165°	1853	1859	1853	1859	1853	523
175°	1926	1934	1926	1934	1926	183
180°	1938	1938	1938	1938	1938	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1158.0	1157.2	1155.1	1156.8	1153.4	1148.7	1148.3	1144.1	1131.8	1130.9	1127.6
5°	1296.4	1292.1	1291.6	1291.0	1283.6	1273.6	1254.6	1252.9	1227.6	1214.9	1199.6
7.5°	1475.4	1477.6	1470.0	1463.2	1440.6	1425.6	1405.2	1379.1	1348.0	1316.4	1295.3
10°	1604.1	1621.4	1599.8	1585.0	1571.2	1545.3	1515.2	1477.6	1440.2	1396.2	1362.9
12.5°	1741.9	1750.5	1746.2	1732.2	1710.8	1671.4	1618.0	1576.6	1542.1	1468.9	1439.5
15°	1929.7	1962.0	1941.4	1893.7	1894.8	1857.2	1787.5	1710.8	1670.1	1606.1	1518.9
17.5°	2129.7	2133.7	2125.0	2085.4	2058.9	2007.3	1942.9	1869.5	1787.0	1709.5	1617.0
20°	2236.3	2233.1	2214.6	2194.0	2148.6	2108.4	2038.1	1956.1	1850.4	1774.2	1673.2
22.5°	2295.5	2290.3	2281.5	2264.2	2226.3	2183.2	2120.1	2030.5	1930.0	1825.0	1708.4
25°	2290.3	2297.1	2298.1	2293.4	2280.2	2254.3	2204.6	2133.2	2032.8	1897.9	1776.4
27.5°	2083.0	2092.7	2121.0	2146.1	2174.0	2202.6	2198.8	2163.3	2089.0	1972.7	1823.9
30°	1875.7	1854.6	1906.9	1973.1	2018.0	2097.3	2141.7	2144.3	2102.5	2002.7	1857.7
32.5°	1588.1	1611.4	1634.6	1715.9	1814.1	1903.2	1991.6	2062.8	2070.8	2004.4	1877.6
35°	1234.0	1263.0	1305.4	1347.6	1453.4	1544.3	1699.7	1835.0	1942.9	1957.2	1879.5
37.5°	994.3	1008.8	1035.5	1077.8	1147.0	1254.9	1375.1	1546.2	1702.4	1818.7	1823.7
40°	869.2	873.4	903.5	935.7	991.8	1080.7	1189.0	1340.2	1527.3	1689.7	1757.4
42.5°	775.3	784.6	797.4	828.3	872.9	939.8	1040.6	1165.5	1337.1	1523.9	1656.3
45°	666.1	676.7	684.7	705.3	737.0	781.9	852.2	966.4	1097.0	1290.0	1468.1
47.5°	594.0	594.9	600.8	616.3	637.9	671.7	721.3	794.8	914.6	1071.1	1254.1
50°	542.4	550.9	553.0	565.1	582.1	606.9	648.1	710.5	808.9	946.3	1114.5
52.5°	506.0	508.6	514.5	523.3	538.1	557.4	593.2	642.1	719.2	836.4	991.0
55°	452.5	452.5	458.4	465.2	473.7	491.1	514.9	550.9	609.6	700.5	828.5
57.5°	403.0	405.7	409.8	411.9	419.1	430.7	450.5	477.9	521.6	591.6	693.3
60°	370.1	374.9	374.4	378.5	384.9	393.8	410.8	433.0	472.1	528.2	613.8
62.5°	341.3	341.0	340.9	346.0	352.3	360.9	371.8	391.1	424.3	474.0	546.9
65°	294.0	292.9	296.6	299.7	301.8	308.2	316.7	333.6	355.8	392.8	449.4
67.5°	251.9	248.8	250.9	251.9	255.5	260.4	268.3	278.8	296.5	326.2	368.8
70°	223.1	220.5	219.9	221.0	224.2	227.8	233.7	243.7	260.1	283.9	315.1
72.5°	193.5	191.7	191.6	193.9	195.4	197.8	202.0	211.2	224.2	242.1	271.1
75°	151.2	151.2	151.2	151.7	153.3	155.4	158.6	163.4	173.4	186.1	205.6
77.5°	113.3	113.2	112.6	112.5	114.8	115.8	116.5	121.0	126.5	135.1	149.4
80°	88.9	86.1	87.3	88.9	89.9	90.4	92.0	93.0	97.9	102.6	112.6
82.5°	65.9	63.7	63.9	66.4	66.7	67.2	68.8	70.2	72.0	76.3	81.7
85°	34.9	34.9	35.4	35.4	36.0	35.4	37.0	37.6	37.6	40.2	43.3
87.5°	21.8	20.8	21.1	21.4	20.9	21.1	21.2	21.4	21.5	21.7	21.2
90°	45.6	45.0	44.3	43.6	43.0	42.0	40.6	39.3	37.9	36.6	32.1
92.5°	61.5	61.9	62.3	62.7	63.1	62.8	61.7	60.6	59.6	58.5	55.9
95°	118.8	118.8	118.8	118.8	118.8	118.1	116.7	115.4	114.0	112.7	110.0
97.5°	182.8	182.9	183.0	183.2	183.3	182.6	181.0	179.5	177.9	176.3	174.4
100°	231.5	230.8	230.1	229.4	228.7	227.9	226.9	225.9	224.9	223.9	222.2
102.5°	281.4	281.6	281.7	281.9	282.0	281.6	280.5	279.5	278.5	277.4	275.2
105°	362.4	361.7	361.1	360.4	359.7	359.4	359.4	359.4	359.4	359.4	356.4
107.5°	446.8	447.2	447.6	448.0	448.4	448.1	447.0	446.0	444.8	443.7	442.5
110°	504.0	504.7	505.4	506.0	506.8	506.4	505.0	503.7	502.4	501.0	500.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	564.9	565.1	565.2	565.4	565.5	564.7	563.1	561.5	559.9	558.3	558.2
115°	648.7	649.0	649.4	649.7	650.1	650.1	649.7	649.4	649.0	648.7	649.4
117.5°	733.7	734.7	735.6	736.5	737.5	738.0	738.1	738.1	738.2	738.3	739.1
120°	793.3	794.1	794.8	795.5	796.1	796.6	797.0	797.3	797.6	798.0	799.6
122.5°	850.6	851.6	852.5	853.5	854.4	855.4	856.3	857.1	858.0	858.9	859.8
125°	936.5	937.9	939.3	940.6	941.9	943.3	944.6	946.0	947.4	948.8	949.4
127.5°	1022.1	1023.7	1025.2	1026.8	1028.3	1030.1	1032.0	1033.9	1035.7	1037.6	1038.4
130°	1078.1	1080.6	1082.9	1085.3	1087.6	1089.5	1090.9	1092.2	1093.6	1094.9	1095.9
132.5°	1136.6	1138.4	1140.3	1142.2	1144.0	1145.7	1147.3	1148.9	1150.5	1152.2	1152.9
135°	1227.4	1228.1	1228.7	1229.4	1230.1	1231.1	1232.4	1233.9	1235.2	1236.6	1236.9
137.5°	1307.5	1308.8	1310.1	1311.3	1312.6	1314.0	1315.5	1316.9	1318.3	1319.7	1318.8
140°	1359.9	1362.2	1364.6	1367.0	1369.4	1370.7	1371.1	1371.4	1371.7	1372.1	1371.7
142.5°	1413.5	1415.3	1417.1	1419.0	1420.8	1421.9	1422.2	1422.6	1422.9	1423.2	1422.6
145°	1490.9	1492.2	1493.6	1494.9	1496.2	1497.1	1497.4	1497.7	1498.1	1498.4	1497.4
147.5°	1559.6	1561.7	1563.8	1565.8	1567.8	1568.8	1568.8	1568.8	1568.8	1568.8	1567.8
150°	1603.6	1605.6	1607.6	1609.6	1611.6	1612.7	1612.7	1612.7	1612.7	1612.7	1611.9
152.5°	1646.2	1647.9	1649.7	1651.4	1653.3	1653.9	1653.3	1652.7	1652.2	1651.6	1651.2
155°	1704.0	1706.4	1708.8	1711.1	1713.5	1714.0	1712.6	1711.3	1710.0	1708.6	1708.3
157.5°	1756.8	1758.6	1760.5	1762.4	1764.3	1764.5	1763.1	1761.7	1760.3	1758.9	1758.6
160°	1790.8	1792.2	1793.5	1794.9	1796.2	1796.0	1794.4	1792.7	1791.0	1789.3	1789.3
162.5°	1816.4	1818.6	1820.8	1822.9	1825.1	1825.3	1823.6	1821.9	1820.3	1818.6	1818.3
165°	1853.3	1855.6	1858.1	1860.4	1862.8	1862.9	1860.9	1858.9	1856.8	1854.8	1854.8
167.5°	1884.6	1886.7	1888.9	1891.0	1893.0	1893.0	1891.0	1888.9	1886.7	1884.6	1884.4
170°	1900.5	1902.9	1905.2	1907.6	1910.0	1910.0	1907.6	1905.2	1902.9	1900.5	1900.5
172.5°	1912.7	1915.0	1917.4	1919.8	1922.2	1922.3	1920.2	1918.0	1916.0	1913.9	1913.9
175°	1926.4	1928.7	1931.1	1933.5	1935.8	1936.0	1934.0	1932.0	1930.0	1927.9	1927.9
177.5°	1933.7	1935.6	1937.4	1939.3	1941.3	1941.4	1939.7	1938.1	1936.5	1934.9	1934.9
180°	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1125.0	1121.7	1118.2	1112.4	1107.3	1100.0	1097.9	1095.4	1087.8	1081.1	1076.0
5°	1193.8	1181.0	1162.6	1145.7	1132.0	1113.4	1102.9	1091.8	1075.9	1061.6	1050.0
7.5°	1265.7	1240.7	1211.9	1180.8	1151.9	1124.0	1101.5	1081.4	1059.1	1038.1	1021.8
10°	1322.7	1286.8	1246.7	1203.3	1166.3	1130.3	1100.1	1073.8	1045.2	1020.4	999.8
12.5°	1387.9	1334.6	1279.2	1226.6	1182.8	1132.9	1096.4	1062.8	1030.4	1000.5	977.3
15°	1465.0	1397.4	1331.7	1259.3	1192.8	1130.3	1087.0	1044.7	1007.1	976.4	946.8
17.5°	1535.2	1458.5	1372.1	1284.0	1203.7	1129.7	1069.0	1021.2	974.2	936.8	907.3
20°	1575.0	1487.7	1389.9	1298.5	1209.6	1127.1	1060.6	1003.4	952.7	913.0	879.7
22.5°	1609.2	1507.1	1405.9	1308.2	1209.2	1120.3	1044.9	986.1	931.1	892.3	856.9
25°	1644.8	1522.6	1421.1	1306.4	1195.9	1103.9	1019.3	952.7	897.7	852.2	815.8
27.5°	1675.2	1521.6	1401.1	1277.7	1175.0	1082.8	992.4	921.0	862.6	813.2	776.2
30°	1695.5	1523.7	1380.4	1258.3	1154.7	1059.4	971.7	899.8	838.5	788.3	753.4
32.5°	1708.2	1522.4	1361.4	1231.2	1122.5	1038.3	949.3	874.8	811.8	762.4	728.8
35°	1715.6	1513.1	1328.6	1175.3	1070.6	988.7	914.1	836.9	770.8	724.8	686.8
37.5°	1700.8	1493.5	1290.5	1121.4	1006.7	926.0	863.3	797.6	734.4	683.7	651.0
40°	1677.5	1480.9	1260.9	1083.3	962.7	885.0	831.6	767.1	704.7	656.6	625.9
42.5°	1633.1	1455.0	1228.3	1041.0	917.1	839.3	790.2	736.3	677.2	632.1	601.5
45°	1524.7	1398.9	1179.5	977.5	849.6	769.2	725.9	686.8	633.4	589.5	563.0
47.5°	1374.3	1314.4	1108.8	910.6	779.2	701.9	656.8	625.3	586.3	550.9	525.5
50°	1269.9	1245.1	1061.1	864.9	732.3	656.6	613.3	584.7	556.7	521.3	498.1
52.5°	1149.3	1164.7	1005.2	817.6	684.4	610.1	569.3	546.6	521.2	492.1	471.8
55°	979.7	1035.1	908.8	738.0	613.3	542.4	503.8	483.7	469.0	447.3	429.8
57.5°	820.7	891.4	804.6	656.1	543.4	482.3	445.2	423.3	413.8	402.5	388.8
60°	726.4	796.2	730.1	601.1	496.4	438.3	405.5	387.0	377.5	369.5	357.9
62.5°	642.3	712.9	657.3	545.3	450.3	396.4	367.9	349.8	342.3	338.2	328.3
65°	526.5	587.3	550.4	458.4	384.4	336.8	310.8	298.2	291.3	289.7	283.4
67.5°	428.6	474.8	447.9	380.2	321.9	280.8	258.8	248.0	242.8	242.3	237.5
70°	364.3	407.6	387.0	325.7	275.5	243.2	224.2	214.6	211.5	211.0	208.3
72.5°	314.4	344.6	328.2	277.0	238.2	208.9	195.0	185.0	181.5	182.2	180.4
75°	232.6	255.4	245.8	210.5	179.3	160.2	148.6	142.2	139.1	140.7	138.6
77.5°	167.3	181.8	173.2	148.7	129.5	115.6	107.1	103.2	100.4	100.3	99.3
80°	126.3	134.8	130.1	115.2	99.4	87.8	80.9	78.3	76.6	76.1	75.6
82.5°	90.0	97.1	91.6	81.4	70.6	63.6	59.8	56.2	55.1	55.4	54.8
85°	45.4	48.1	45.9	39.7	35.4	32.2	30.1	28.6	27.5	28.0	27.0
87.5°	21.2	20.7	18.6	16.2	14.6	12.6	12.0	10.5	10.3	11.0	11.2
90°	27.8	23.3	19.0	15.0	11.7	8.3	4.9	1.5	4.9	8.3	11.7
92.5°	53.4	51.0	48.5	46.0	43.7	41.4	39.2	36.9	39.2	41.4	43.7
95°	107.2	104.5	101.9	99.4	96.9	94.6	92.2	89.9	92.2	94.6	96.9
97.5°	172.4	170.5	168.4	166.6	164.9	163.1	161.4	159.6	161.4	163.1	164.9
100°	220.5	218.7	217.1	215.2	213.2	211.2	209.1	207.1	209.1	211.2	213.2
102.5°	273.0	270.7	268.5	266.8	265.6	264.4	263.2	262.0	263.2	264.4	265.6
105°	353.3	350.2	347.2	345.4	344.7	344.0	343.4	342.6	343.4	344.0	344.7
107.5°	441.3	440.1	438.9	438.1	437.7	437.3	436.9	436.5	436.9	437.3	437.7
110°	499.7	499.0	498.3	497.7	497.0	496.2	495.6	494.9	495.6	496.2	497.0





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	558.0	557.8	557.7	557.4	557.0	556.6	556.2	555.8	556.2	556.6	557.0
115°	650.1	650.8	651.5	651.3	650.3	649.2	648.2	647.2	648.2	649.2	650.3
117.5°	740.0	740.9	741.7	741.8	741.2	740.5	739.8	739.2	739.8	740.5	741.2
120°	801.3	803.0	804.8	804.6	802.5	800.5	798.5	796.5	798.5	800.5	802.5
122.5°	860.6	861.5	862.4	862.1	860.6	859.1	857.6	856.2	857.6	859.1	860.6
125°	950.1	950.8	951.4	951.3	950.3	949.3	948.2	947.2	948.2	949.3	950.3
127.5°	1039.2	1039.9	1040.7	1040.0	1037.7	1035.6	1033.4	1031.3	1033.4	1035.6	1037.7
130°	1096.9	1097.9	1098.9	1098.1	1095.4	1092.7	1090.0	1087.3	1090.0	1092.7	1095.4
132.5°	1153.7	1154.4	1155.2	1154.2	1151.4	1148.7	1146.0	1143.4	1146.0	1148.7	1151.4
135°	1237.2	1237.6	1237.9	1237.1	1235.0	1232.9	1230.9	1228.9	1230.9	1232.9	1235.0
137.5°	1317.9	1317.1	1316.2	1314.8	1313.2	1311.5	1309.8	1308.1	1309.8	1311.5	1313.2
140°	1371.4	1371.1	1370.7	1369.7	1368.0	1366.3	1364.6	1362.9	1364.6	1366.3	1368.0
142.5°	1422.0	1421.4	1420.8	1419.7	1418.0	1416.2	1414.5	1412.9	1414.5	1416.2	1418.0
145°	1496.4	1495.4	1494.4	1493.6	1492.9	1492.2	1491.6	1490.9	1491.6	1492.2	1492.9
147.5°	1566.9	1566.0	1565.0	1564.0	1562.8	1561.5	1560.2	1559.0	1560.2	1561.5	1562.8
150°	1611.3	1610.6	1609.9	1609.3	1608.6	1607.9	1607.3	1606.6	1607.3	1607.9	1608.6
152.5°	1650.8	1650.4	1650.0	1649.3	1648.4	1647.5	1646.5	1645.6	1646.5	1647.5	1648.4
155°	1707.9	1707.6	1707.3	1707.1	1707.1	1707.1	1707.1	1707.1	1707.1	1707.1	1707.1
157.5°	1758.3	1758.1	1757.8	1757.9	1758.3	1758.7	1759.1	1759.5	1759.1	1758.7	1758.3
160°	1789.3	1789.3	1789.3	1789.7	1790.3	1791.0	1791.7	1792.4	1791.7	1791.0	1790.3
162.5°	1818.1	1817.8	1817.5	1817.9	1818.8	1819.7	1820.7	1821.6	1820.7	1819.7	1818.8
165°	1854.8	1854.8	1854.8	1855.3	1856.3	1857.3	1858.4	1859.4	1858.4	1857.3	1856.3
167.5°	1884.1	1883.8	1883.6	1884.1	1885.4	1886.8	1888.1	1889.6	1888.1	1886.8	1885.4
170°	1900.5	1900.5	1900.5	1901.2	1902.5	1903.9	1905.2	1906.5	1905.2	1903.9	1902.5
172.5°	1913.9	1913.9	1913.9	1914.6	1915.9	1917.2	1918.6	1920.0	1918.6	1917.2	1915.9
175°	1927.9	1927.9	1927.9	1928.5	1930.0	1931.3	1932.7	1934.0	1932.7	1931.3	1930.0
177.5°	1934.9	1934.9	1934.9	1935.4	1936.5	1937.6	1938.7	1939.7	1938.7	1937.6	1936.5
180°	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1073.0	1070.1	1065.8	1059.4	1054.4	1046.3	1046.3	1047.6	1047.6	1047.2	1046.3
5°	1040.5	1032.5	1023.0	1011.9	1000.3	988.7	986.5	982.3	979.2	977.0	974.3
7.5°	1006.1	992.0	978.2	962.6	948.5	936.8	928.6	921.8	917.5	912.8	909.5
10°	982.8	965.3	949.0	932.6	914.6	900.4	891.4	885.0	880.3	876.1	873.9
12.5°	955.3	935.3	917.3	901.7	882.0	867.4	858.8	855.9	850.2	841.3	836.7
15°	915.1	896.7	874.9	851.2	841.6	823.6	813.6	808.9	805.7	798.8	796.7
17.5°	880.8	856.6	832.2	814.5	796.8	782.2	776.6	770.7	766.5	760.8	759.2
20°	853.3	831.6	809.4	790.4	771.8	756.0	751.2	747.0	742.8	740.1	738.0
22.5°	825.4	803.8	785.3	767.5	747.8	737.4	732.3	727.6	724.6	722.9	720.7
25°	786.2	767.1	746.5	730.6	714.8	707.9	704.7	702.1	699.9	697.3	696.8
27.5°	751.0	730.3	713.6	698.8	687.4	681.7	678.6	677.3	677.8	678.7	679.3
30°	724.8	705.8	692.1	679.3	668.8	663.5	663.0	663.0	665.1	665.6	666.7
32.5°	700.7	685.1	671.4	659.0	651.1	647.4	649.4	649.4	651.2	652.5	654.4
35°	665.6	651.9	641.3	630.8	623.9	625.4	626.5	627.5	630.2	633.4	635.5
37.5°	632.1	620.2	609.2	600.9	597.7	600.6	603.1	605.3	608.4	610.9	613.0
40°	607.9	599.0	588.4	581.0	582.1	583.7	585.8	588.4	591.1	592.7	594.8
42.5°	585.5	576.1	568.2	562.0	563.5	565.5	566.7	568.2	571.2	574.0	575.3
45°	551.4	544.0	536.6	532.9	534.0	535.0	536.0	537.7	540.3	542.4	543.0
47.5°	513.0	507.9	502.9	499.3	501.0	500.6	501.9	505.3	506.1	507.5	510.4
50°	488.5	483.7	478.0	476.9	476.9	476.9	477.4	481.6	481.6	483.7	485.8
52.5°	461.4	458.4	454.6	452.7	451.9	451.9	454.1	456.3	457.1	460.1	462.2
55°	421.3	418.2	415.1	413.4	412.3	413.4	417.7	418.7	421.3	422.9	424.5
57.5°	379.6	377.2	374.7	373.8	373.5	375.0	377.3	380.4	381.1	386.0	388.4
60°	352.1	348.4	346.3	346.3	345.3	350.0	348.9	354.3	355.3	358.4	362.1
62.5°	323.8	318.8	317.9	317.9	319.4	320.8	322.2	324.6	327.4	331.3	334.3
65°	278.1	275.5	279.1	278.6	277.5	280.7	280.7	283.4	286.5	290.2	296.1
67.5°	234.8	233.5	233.8	233.8	235.4	237.2	238.6	241.0	244.8	248.7	252.5
70°	205.6	207.2	204.6	206.7	208.3	208.8	209.8	213.1	217.3	219.9	224.2
72.5°	177.3	177.2	177.5	178.3	180.0	180.9	182.0	185.6	190.3	192.5	195.8
75°	136.4	135.8	137.4	137.4	140.1	141.2	142.2	143.8	148.0	151.2	153.8
77.5°	99.6	100.3	99.9	101.7	101.0	101.2	104.4	106.0	106.4	112.7	114.1
80°	75.0	76.1	76.6	77.2	77.8	76.6	80.4	81.9	81.9	85.6	88.3
82.5°	53.9	54.5	55.9	56.5	56.6	57.7	58.0	59.1	60.4	62.0	65.4
85°	27.0	28.6	29.1	28.6	29.1	28.0	29.6	30.1	30.7	30.7	30.7
87.5°	11.5	12.6	13.1	14.4	14.8	16.2	16.5	15.9	16.2	17.7	16.3
90°	15.0	19.0	23.3	27.8	32.1	36.6	37.9	39.3	40.6	42.0	43.0
92.5°	46.0	48.5	51.0	53.4	55.9	58.5	59.6	60.6	61.7	62.8	63.1
95°	99.4	101.9	104.5	107.2	110.0	112.7	114.0	115.4	116.7	118.1	118.8
97.5°	166.6	168.4	170.5	172.4	174.4	176.3	177.9	179.5	181.0	182.6	183.3
100°	215.2	217.1	218.7	220.5	222.2	223.9	224.9	225.9	226.9	227.9	228.7
102.5°	266.8	268.5	270.7	273.0	275.2	277.4	278.5	279.5	280.5	281.6	282.0
105°	345.4	347.2	350.2	353.3	356.4	359.4	359.4	359.4	359.4	359.4	359.7
107.5°	438.1	438.9	440.1	441.3	442.5	443.7	444.8	446.0	447.0	448.1	448.4
110°	497.7	498.3	499.0	499.7	500.3	501.0	502.4	503.7	505.0	506.4	506.8



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	557.4	557.7	557.8	558.0	558.2	558.3	559.9	561.5	563.1	564.7	565.5
115°	651.3	651.5	650.8	650.1	649.4	648.7	649.0	649.4	649.7	650.1	650.1
117.5°	741.8	741.7	740.9	740.0	739.1	738.3	738.2	738.1	738.1	738.0	737.5
120°	804.6	804.8	803.0	801.3	799.6	798.0	797.6	797.3	797.0	796.6	796.1
122.5°	862.1	862.4	861.5	860.6	859.8	858.9	858.0	857.1	856.3	855.4	854.4
125°	951.3	951.4	950.8	950.1	949.4	948.8	947.4	946.0	944.6	943.3	941.9
127.5°	1040.0	1040.7	1039.9	1039.2	1038.4	1037.6	1035.7	1033.9	1032.0	1030.1	1028.3
130°	1098.1	1098.9	1097.9	1096.9	1095.9	1094.9	1093.6	1092.2	1090.9	1089.5	1087.6
132.5°	1154.2	1155.2	1154.4	1153.7	1152.9	1152.2	1150.5	1148.9	1147.3	1145.7	1144.0
135°	1237.1	1237.9	1237.6	1237.2	1236.9	1236.6	1235.2	1233.9	1232.4	1231.1	1230.1
137.5°	1314.8	1316.2	1317.1	1317.9	1318.8	1319.7	1318.3	1316.9	1315.5	1314.0	1312.6
140°	1369.7	1370.7	1371.1	1371.4	1371.7	1372.1	1371.7	1371.4	1371.1	1370.7	1369.4
142.5°	1419.7	1420.8	1421.4	1422.0	1422.6	1423.2	1422.9	1422.6	1422.2	1421.9	1420.8
145°	1493.6	1494.4	1495.4	1496.4	1497.4	1498.4	1498.1	1497.7	1497.4	1497.1	1496.2
147.5°	1564.0	1565.0	1566.0	1566.9	1567.8	1568.8	1568.8	1568.8	1568.8	1568.8	1567.8
150°	1609.3	1609.9	1610.6	1611.3	1611.9	1612.7	1612.7	1612.7	1612.7	1612.7	1611.6
152.5°	1649.3	1650.0	1650.4	1650.8	1651.2	1651.6	1652.2	1652.7	1653.3	1653.9	1653.3
155°	1707.1	1707.3	1707.6	1707.9	1708.3	1708.6	1710.0	1711.3	1712.6	1714.0	1713.5
157.5°	1757.9	1757.8	1758.1	1758.3	1758.6	1758.9	1760.3	1761.7	1763.1	1764.5	1764.3
160°	1789.7	1789.3	1789.3	1789.3	1789.3	1789.3	1791.0	1792.7	1794.4	1796.0	1796.2
162.5°	1817.9	1817.5	1817.8	1818.1	1818.3	1818.6	1820.3	1821.9	1823.6	1825.3	1825.1
165°	1855.3	1854.8	1854.8	1854.8	1854.8	1854.8	1856.8	1858.9	1860.9	1862.9	1862.8
167.5°	1884.1	1883.6	1883.8	1884.1	1884.4	1884.6	1886.7	1888.9	1891.0	1893.0	1893.0
170°	1901.2	1900.5	1900.5	1900.5	1900.5	1900.5	1902.9	1905.2	1907.6	1910.0	1910.0
172.5°	1914.6	1913.9	1913.9	1913.9	1913.9	1913.9	1916.0	1918.0	1920.2	1922.3	1922.2
175°	1928.5	1927.9	1927.9	1927.9	1927.9	1927.9	1930.0	1932.0	1934.0	1936.0	1935.8
177.5°	1935.4	1934.9	1934.9	1934.9	1934.9	1934.9	1936.5	1938.1	1939.7	1941.4	1941.3
180°	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5



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CATALOG NUMBER: S123DIW-S775D1535U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1043.4	1043.0	1045.9	1043.8	1045.9	1043.0	1043.4	1046.3	1047.2	1047.6	1047.6
5°	971.2	972.8	967.5	967.5	967.5	972.8	971.2	974.3	977.0	979.2	982.3
7.5°	906.9	904.5	904.7	901.9	904.7	904.5	906.9	909.5	912.8	917.5	921.8
10°	867.6	864.4	863.3	863.8	863.3	864.4	867.6	873.9	876.1	880.3	885.0
12.5°	835.0	834.4	827.4	827.5	827.4	834.4	835.0	836.7	841.3	850.2	855.9
15°	796.7	786.7	785.6	788.8	785.6	786.7	796.7	796.7	798.8	805.7	808.9
17.5°	758.3	753.1	753.4	751.7	753.4	753.1	758.3	759.2	760.8	766.5	770.7
20°	738.0	734.9	734.4	730.6	734.4	734.9	738.0	738.0	740.1	742.8	747.0
22.5°	719.4	718.4	718.7	714.6	718.7	718.4	719.4	720.7	722.9	724.6	727.6
25°	696.3	698.9	696.8	696.8	696.8	698.9	696.3	696.8	697.3	699.9	702.1
27.5°	680.6	680.5	679.4	679.4	679.4	680.5	680.6	679.3	678.7	677.8	677.3
30°	668.8	668.2	669.3	669.3	669.3	668.2	668.8	666.7	665.6	665.1	663.0
32.5°	656.9	657.7	657.9	658.3	657.9	657.7	656.9	654.4	652.5	651.2	649.4
35°	638.6	639.1	640.8	639.7	640.8	639.1	638.6	635.5	633.4	630.2	627.5
37.5°	613.9	616.3	615.8	616.6	615.8	616.3	613.9	613.0	610.9	608.4	605.3
40°	595.3	596.9	596.3	596.3	596.3	596.9	595.3	594.8	592.7	591.1	588.4
42.5°	576.2	577.4	576.0	575.2	576.0	577.4	576.2	575.3	574.0	571.2	568.2
45°	545.0	544.0	545.6	543.5	545.6	544.0	545.0	543.0	542.4	540.3	537.7
47.5°	510.2	511.2	511.7	513.2	511.7	511.2	510.2	510.4	507.5	506.1	505.3
50°	487.0	490.1	490.1	489.6	490.1	490.1	487.0	485.8	483.7	481.6	481.6
52.5°	464.0	465.5	467.7	467.6	467.7	465.5	464.0	462.2	460.1	457.1	456.3
55°	428.8	429.8	430.9	431.4	430.9	429.8	428.8	424.5	422.9	421.3	418.7
57.5°	392.1	391.7	394.3	395.1	394.3	391.7	392.1	388.4	386.0	381.1	380.4
60°	366.4	366.4	370.6	372.2	370.6	366.4	366.4	362.1	358.4	355.3	354.3
62.5°	338.9	340.6	344.8	342.5	344.8	340.6	338.9	334.3	331.3	327.4	324.6
65°	298.7	303.0	302.5	304.5	302.5	303.0	298.7	296.1	290.2	286.5	283.4
67.5°	256.7	259.3	263.2	263.5	263.2	259.3	256.7	252.5	248.7	244.8	241.0
70°	228.4	231.1	233.2	234.7	233.2	231.1	228.4	224.2	219.9	217.3	213.1
72.5°	200.9	202.3	207.3	205.1	207.3	202.3	200.9	195.8	192.5	190.3	185.6
75°	157.5	161.3	164.4	162.8	164.4	161.3	157.5	153.8	151.2	148.0	143.8
77.5°	116.5	120.2	121.7	120.4	121.7	120.2	116.5	114.1	112.7	106.4	106.0
80°	92.0	91.5	94.6	94.1	94.6	91.5	92.0	88.3	85.6	81.9	81.9
82.5°	67.5	67.0	68.4	68.8	68.4	67.0	67.5	65.4	62.0	60.4	59.1
85°	32.8	34.3	32.2	31.7	32.2	34.3	32.8	30.7	30.7	30.7	30.1
87.5°	16.4	16.5	16.2	15.9	16.2	16.5	16.4	16.3	17.7	16.2	15.9
90°	43.6	44.3	45.0	45.6	45.0	44.3	43.6	43.0	42.0	40.6	39.3
92.5°	62.7	62.3	61.9	61.5	61.9	62.3	62.7	63.1	62.8	61.7	60.6
95°	118.8	118.8	118.8	118.8	118.8	118.8	118.8	118.8	118.1	116.7	115.4
97.5°	183.2	183.0	182.9	182.8	182.9	183.0	183.2	183.3	182.6	181.0	179.5
100°	229.4	230.1	230.8	231.5	230.8	230.1	229.4	228.7	227.9	226.9	225.9
102.5°	281.9	281.7	281.6	281.4	281.6	281.7	281.9	282.0	281.6	280.5	279.5
105°	360.4	361.1	361.7	362.4	361.7	361.1	360.4	359.7	359.4	359.4	359.4
107.5°	448.0	447.6	447.2	446.8	447.2	447.6	448.0	448.4	448.1	447.0	446.0
110°	506.0	505.4	504.7	504.0	504.7	505.4	506.0	506.8	506.4	505.0	503.7



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	565.4	565.2	565.1	564.9	565.1	565.2	565.4	565.5	564.7	563.1	561.5
115°	649.7	649.4	649.0	648.7	649.0	649.4	649.7	650.1	650.1	649.7	649.4
117.5°	736.5	735.6	734.7	733.7	734.7	735.6	736.5	737.5	738.0	738.1	738.1
120°	795.5	794.8	794.1	793.3	794.1	794.8	795.5	796.1	796.6	797.0	797.3
122.5°	853.5	852.5	851.6	850.6	851.6	852.5	853.5	854.4	855.4	856.3	857.1
125°	940.6	939.3	937.9	936.5	937.9	939.3	940.6	941.9	943.3	944.6	946.0
127.5°	1026.8	1025.2	1023.7	1022.1	1023.7	1025.2	1026.8	1028.3	1030.1	1032.0	1033.9
130°	1085.3	1082.9	1080.6	1078.1	1080.6	1082.9	1085.3	1087.6	1089.5	1090.9	1092.2
132.5°	1142.2	1140.3	1138.4	1136.6	1138.4	1140.3	1142.2	1144.0	1145.7	1147.3	1148.9
135°	1229.4	1228.7	1228.1	1227.4	1228.1	1228.7	1229.4	1230.1	1231.1	1232.4	1233.9
137.5°	1311.3	1310.1	1308.8	1307.5	1308.8	1310.1	1311.3	1312.6	1314.0	1315.5	1316.9
140°	1367.0	1364.6	1362.2	1359.9	1362.2	1364.6	1367.0	1369.4	1370.7	1371.1	1371.4
142.5°	1419.0	1417.1	1415.3	1413.5	1415.3	1417.1	1419.0	1420.8	1421.9	1422.2	1422.6
145°	1494.9	1493.6	1492.2	1490.9	1492.2	1493.6	1494.9	1496.2	1497.1	1497.4	1497.7
147.5°	1565.8	1563.8	1561.7	1559.6	1561.7	1563.8	1565.8	1567.8	1568.8	1568.8	1568.8
150°	1609.6	1607.6	1605.6	1603.6	1605.6	1607.6	1609.6	1611.6	1612.7	1612.7	1612.7
152.5°	1651.4	1649.7	1647.9	1646.2	1647.9	1649.7	1651.4	1653.3	1653.9	1653.3	1652.7
155°	1711.1	1708.8	1706.4	1704.0	1706.4	1708.8	1711.1	1713.5	1714.0	1712.6	1711.3
157.5°	1762.4	1760.5	1758.6	1756.8	1758.6	1760.5	1762.4	1764.3	1764.5	1763.1	1761.7
160°	1794.9	1793.5	1792.2	1790.8	1792.2	1793.5	1794.9	1796.2	1796.0	1794.4	1792.7
162.5°	1822.9	1820.8	1818.6	1816.4	1818.6	1820.8	1822.9	1825.1	1825.3	1823.6	1821.9
165°	1860.4	1858.1	1855.6	1853.3	1855.6	1858.1	1860.4	1862.8	1862.9	1860.9	1858.9
167.5°	1891.0	1888.9	1886.7	1884.6	1886.7	1888.9	1891.0	1893.0	1893.0	1891.0	1888.9
170°	1907.6	1905.2	1902.9	1900.5	1902.9	1905.2	1907.6	1910.0	1910.0	1907.6	1905.2
172.5°	1919.8	1917.4	1915.0	1912.7	1915.0	1917.4	1919.8	1922.2	1922.3	1920.2	1918.0
175°	1933.5	1931.1	1928.7	1926.4	1928.7	1931.1	1933.5	1935.8	1936.0	1934.0	1932.0
177.5°	1939.3	1937.4	1935.6	1933.7	1935.6	1937.4	1939.3	1941.3	1941.4	1939.7	1938.1
180°	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1046.3	1046.3	1054.4	1059.4	1065.8	1070.1	1073.0	1076.0	1081.1	1087.8	1095.4
5°	986.5	988.7	1000.3	1011.9	1023.0	1032.5	1040.5	1050.0	1061.6	1075.9	1091.8
7.5°	928.6	936.8	948.5	962.6	978.2	992.0	1006.1	1021.8	1038.1	1059.1	1081.4
10°	891.4	900.4	914.6	932.6	949.0	965.3	982.8	999.8	1020.4	1045.2	1073.8
12.5°	858.8	867.4	882.0	901.7	917.3	935.3	955.3	977.3	1000.5	1030.4	1062.8
15°	813.6	823.6	841.6	851.2	874.9	896.7	915.1	946.8	976.4	1007.1	1044.7
17.5°	776.6	782.2	796.8	814.5	832.2	856.6	880.8	907.3	936.8	974.2	1021.2
20°	751.2	756.0	771.8	790.4	809.4	831.6	853.3	879.7	913.0	952.7	1003.4
22.5°	732.3	737.4	747.8	767.5	785.3	803.8	825.4	856.9	892.3	931.1	986.1
25°	704.7	707.9	714.8	730.6	746.5	767.1	786.2	815.8	852.2	897.7	952.7
27.5°	678.6	681.7	687.4	698.8	713.6	730.3	751.0	776.2	813.2	862.6	921.0
30°	663.0	663.5	668.8	679.3	692.1	705.8	724.8	753.4	788.3	838.5	899.8
32.5°	649.4	647.4	651.1	659.0	671.4	685.1	700.7	728.8	762.4	811.8	874.8
35°	626.5	625.4	623.9	630.8	641.3	651.9	665.6	686.8	724.8	770.8	836.9
37.5°	603.1	600.6	597.7	600.9	609.2	620.2	632.1	651.0	683.7	734.4	797.6
40°	585.8	583.7	582.1	581.0	588.4	599.0	607.9	625.9	656.6	704.7	767.1
42.5°	566.7	565.5	563.5	562.0	568.2	576.1	585.5	601.5	632.1	677.2	736.3
45°	536.0	535.0	534.0	532.9	536.6	544.0	551.4	563.0	589.5	633.4	686.8
47.5°	501.9	500.6	501.0	499.3	502.9	507.9	513.0	525.5	550.9	586.3	625.3
50°	477.4	476.9	476.9	476.9	478.0	483.7	488.5	498.1	521.3	556.7	584.7
52.5°	454.1	451.9	451.9	452.7	454.6	458.4	461.4	471.8	492.1	521.2	546.6
55°	417.7	413.4	412.3	413.4	415.1	418.2	421.3	429.8	447.3	469.0	483.7
57.5°	377.3	375.0	373.5	373.8	374.7	377.2	379.6	388.8	402.5	413.8	423.3
60°	348.9	350.0	345.3	346.3	346.3	348.4	352.1	357.9	369.5	377.5	387.0
62.5°	322.2	320.8	319.4	317.9	317.9	318.8	323.8	328.3	338.2	342.3	349.8
65°	280.7	280.7	277.5	278.6	279.1	275.5	278.1	283.4	289.7	291.3	298.2
67.5°	238.6	237.2	235.4	233.8	233.8	233.5	234.8	237.5	242.3	242.8	248.0
70°	209.8	208.8	208.3	206.7	204.6	207.2	205.6	208.3	211.0	211.5	214.6
72.5°	182.0	180.9	180.0	178.3	177.5	177.2	177.3	180.4	182.2	181.5	185.0
75°	142.2	141.2	140.1	137.4	137.4	135.8	136.4	138.6	140.7	139.1	142.2
77.5°	104.4	101.2	101.0	101.7	99.9	100.3	99.6	99.3	100.3	100.4	103.2
80°	80.4	76.6	77.8	77.2	76.6	76.1	75.0	75.6	76.1	76.6	78.3
82.5°	58.0	57.7	56.6	56.5	55.9	54.5	53.9	54.8	55.4	55.1	56.2
85°	29.6	28.0	29.1	28.6	29.1	28.6	27.0	27.0	28.0	27.5	28.6
87.5°	16.5	16.2	14.8	14.4	13.1	12.6	11.5	11.2	11.0	10.3	10.5
90°	37.9	36.6	32.1	27.8	23.3	19.0	15.0	11.7	8.3	4.9	1.5
92.5°	59.6	58.5	55.9	53.4	51.0	48.5	46.0	43.7	41.4	39.2	36.9
95°	114.0	112.7	110.0	107.2	104.5	101.9	99.4	96.9	94.6	92.2	89.9
97.5°	177.9	176.3	174.4	172.4	170.5	168.4	166.6	164.9	163.1	161.4	159.6
100°	224.9	223.9	222.2	220.5	218.7	217.1	215.2	213.2	211.2	209.1	207.1
102.5°	278.5	277.4	275.2	273.0	270.7	268.5	266.8	265.6	264.4	263.2	262.0
105°	359.4	359.4	356.4	353.3	350.2	347.2	345.4	344.7	344.0	343.4	342.6
107.5°	444.8	443.7	442.5	441.3	440.1	438.9	438.1	437.7	437.3	436.9	436.5
110°	502.4	501.0	500.3	499.7	499.0	498.3	497.7	497.0	496.2	495.6	494.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	559.9	558.3	558.2	558.0	557.8	557.7	557.4	557.0	556.6	556.2	555.8
115°	649.0	648.7	649.4	650.1	650.8	651.5	651.3	650.3	649.2	648.2	647.2
117.5°	738.2	738.3	739.1	740.0	740.9	741.7	741.8	741.2	740.5	739.8	739.2
120°	797.6	798.0	799.6	801.3	803.0	804.8	804.6	802.5	800.5	798.5	796.5
122.5°	858.0	858.9	859.8	860.6	861.5	862.4	862.1	860.6	859.1	857.6	856.2
125°	947.4	948.8	949.4	950.1	950.8	951.4	951.3	950.3	949.3	948.2	947.2
127.5°	1035.7	1037.6	1038.4	1039.2	1039.9	1040.7	1040.0	1037.7	1035.6	1033.4	1031.3
130°	1093.6	1094.9	1095.9	1096.9	1097.9	1098.9	1098.1	1095.4	1092.7	1090.0	1087.3
132.5°	1150.5	1152.2	1152.9	1153.7	1154.4	1155.2	1154.2	1151.4	1148.7	1146.0	1143.4
135°	1235.2	1236.6	1236.9	1237.2	1237.6	1237.9	1237.1	1235.0	1232.9	1230.9	1228.9
137.5°	1318.3	1319.7	1318.8	1317.9	1317.1	1316.2	1314.8	1313.2	1311.5	1309.8	1308.1
140°	1371.7	1372.1	1371.7	1371.4	1371.1	1370.7	1369.7	1368.0	1366.3	1364.6	1362.9
142.5°	1422.9	1423.2	1422.6	1422.0	1421.4	1420.8	1419.7	1418.0	1416.2	1414.5	1412.9
145°	1498.1	1498.4	1497.4	1496.4	1495.4	1494.4	1493.6	1492.9	1492.2	1491.6	1490.9
147.5°	1568.8	1568.8	1567.8	1566.9	1566.0	1565.0	1564.0	1562.8	1561.5	1560.2	1559.0
150°	1612.7	1612.7	1611.9	1611.3	1610.6	1609.9	1609.3	1608.6	1607.9	1607.3	1606.6
152.5°	1652.2	1651.6	1651.2	1650.8	1650.4	1650.0	1649.3	1648.4	1647.5	1646.5	1645.6
155°	1710.0	1708.6	1708.3	1707.9	1707.6	1707.3	1707.1	1707.1	1707.1	1707.1	1707.1
157.5°	1760.3	1758.9	1758.6	1758.3	1758.1	1757.8	1757.9	1758.3	1758.7	1759.1	1759.5
160°	1791.0	1789.3	1789.3	1789.3	1789.3	1789.3	1789.7	1790.3	1791.0	1791.7	1792.4
162.5°	1820.3	1818.6	1818.3	1818.1	1817.8	1817.5	1817.9	1818.8	1819.7	1820.7	1821.6
165°	1856.8	1854.8	1854.8	1854.8	1854.8	1854.8	1855.3	1856.3	1857.3	1858.4	1859.4
167.5°	1886.7	1884.6	1884.4	1884.1	1883.8	1883.6	1884.1	1885.4	1886.8	1888.1	1889.6
170°	1902.9	1900.5	1900.5	1900.5	1900.5	1900.5	1901.2	1902.5	1903.9	1905.2	1906.5
172.5°	1916.0	1913.9	1913.9	1913.9	1913.9	1913.9	1914.6	1915.9	1917.2	1918.6	1920.0
175°	1930.0	1927.9	1927.9	1927.9	1927.9	1927.9	1928.5	1930.0	1931.3	1932.7	1934.0
177.5°	1936.5	1934.9	1934.9	1934.9	1934.9	1934.9	1935.4	1936.5	1937.6	1938.7	1939.7
180°	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1097.9	1100.0	1107.3	1112.4	1118.2	1121.7	1125.0	1127.6	1130.9	1131.8	1144.1
5°	1102.9	1113.4	1132.0	1145.7	1162.6	1181.0	1193.8	1199.6	1214.9	1227.6	1252.9
7.5°	1101.5	1124.0	1151.9	1180.8	1211.9	1240.7	1265.7	1295.3	1316.4	1348.0	1379.1
10°	1100.1	1130.3	1166.3	1203.3	1246.7	1286.8	1322.7	1362.9	1396.2	1440.2	1477.6
12.5°	1096.4	1132.9	1182.8	1226.6	1279.2	1334.6	1387.9	1439.5	1468.9	1542.1	1576.6
15°	1087.0	1130.3	1192.8	1259.3	1331.7	1397.4	1465.0	1518.9	1606.1	1670.1	1710.8
17.5°	1069.0	1129.7	1203.7	1284.0	1372.1	1458.5	1535.2	1617.0	1709.5	1787.0	1869.5
20°	1060.6	1127.1	1209.6	1298.5	1389.9	1487.7	1575.0	1673.2	1774.2	1850.4	1956.1
22.5°	1044.9	1120.3	1209.2	1308.2	1405.9	1507.1	1609.2	1708.4	1825.0	1930.0	2030.5
25°	1019.3	1103.9	1195.9	1306.4	1421.1	1522.6	1644.8	1776.4	1897.9	2032.8	2133.2
27.5°	992.4	1082.8	1175.0	1277.7	1401.1	1521.6	1675.2	1823.9	1972.7	2089.0	2163.3
30°	971.7	1059.4	1154.7	1258.3	1380.4	1523.7	1695.5	1857.7	2002.7	2102.5	2144.3
32.5°	949.3	1038.3	1122.5	1231.2	1361.4	1522.4	1708.2	1877.6	2004.4	2070.8	2062.8
35°	914.1	988.7	1070.6	1175.3	1328.6	1513.1	1715.6	1879.5	1957.2	1942.9	1835.0
37.5°	863.3	926.0	1006.7	1121.4	1290.5	1493.5	1700.8	1823.7	1818.7	1702.4	1546.2
40°	831.6	885.0	962.7	1083.3	1260.9	1480.9	1677.5	1757.4	1689.7	1527.3	1340.2
42.5°	790.2	839.3	917.1	1041.0	1228.3	1455.0	1633.1	1656.3	1523.9	1337.1	1165.5
45°	725.9	769.2	849.6	977.5	1179.5	1398.9	1524.7	1468.1	1290.0	1097.0	966.4
47.5°	656.8	701.9	779.2	910.6	1108.8	1314.4	1374.3	1254.1	1071.1	914.6	794.8
50°	613.3	656.6	732.3	864.9	1061.1	1245.1	1269.9	1114.5	946.3	808.9	710.5
52.5°	569.3	610.1	684.4	817.6	1005.2	1164.7	1149.3	991.0	836.4	719.2	642.1
55°	503.8	542.4	613.3	738.0	908.8	1035.1	979.7	828.5	700.5	609.6	550.9
57.5°	445.2	482.3	543.4	656.1	804.6	891.4	820.7	693.3	591.6	521.6	477.9
60°	405.5	438.3	496.4	601.1	730.1	796.2	726.4	613.8	528.2	472.1	433.0
62.5°	367.9	396.4	450.3	545.3	657.3	712.9	642.3	546.9	474.0	424.3	391.1
65°	310.8	336.8	384.4	458.4	550.4	587.3	526.5	449.4	392.8	355.8	333.6
67.5°	258.8	280.8	321.9	380.2	447.9	474.8	428.6	368.8	326.2	296.5	278.8
70°	224.2	243.2	275.5	325.7	387.0	407.6	364.3	315.1	283.9	260.1	243.7
72.5°	195.0	208.9	238.2	277.0	328.2	344.6	314.4	271.1	242.1	224.2	211.2
75°	148.6	160.2	179.3	210.5	245.8	255.4	232.6	205.6	186.1	173.4	163.4
77.5°	107.1	115.6	129.5	148.7	173.2	181.8	167.3	149.4	135.1	126.5	121.0
80°	80.9	87.8	99.4	115.2	130.1	134.8	126.3	112.6	102.6	97.9	93.0
82.5°	59.8	63.6	70.6	81.4	91.6	97.1	90.0	81.7	76.3	72.0	70.2
85°	30.1	32.2	35.4	39.7	45.9	48.1	45.4	43.3	40.2	37.6	37.6
87.5°	12.0	12.6	14.6	16.2	18.6	20.7	21.2	21.2	21.7	21.5	21.4
90°	4.9	8.3	11.7	15.0	19.0	23.3	27.8	32.1	36.6	37.9	39.3
92.5°	39.2	41.4	43.7	46.0	48.5	51.0	53.4	55.9	58.5	59.6	60.6
95°	92.2	94.6	96.9	99.4	101.9	104.5	107.2	110.0	112.7	114.0	115.4
97.5°	161.4	163.1	164.9	166.6	168.4	170.5	172.4	174.4	176.3	177.9	179.5
100°	209.1	211.2	213.2	215.2	217.1	218.7	220.5	222.2	223.9	224.9	225.9
102.5°	263.2	264.4	265.6	266.8	268.5	270.7	273.0	275.2	277.4	278.5	279.5
105°	343.4	344.0	344.7	345.4	347.2	350.2	353.3	356.4	359.4	359.4	359.4
107.5°	436.9	437.3	437.7	438.1	438.9	440.1	441.3	442.5	443.7	444.8	446.0
110°	495.6	496.2	497.0	497.7	498.3	499.0	499.7	500.3	501.0	502.4	503.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	556.2	556.6	557.0	557.4	557.7	557.8	558.0	558.2	558.3	559.9	561.5
115°	648.2	649.2	650.3	651.3	651.5	650.8	650.1	649.4	648.7	649.0	649.4
117.5°	739.8	740.5	741.2	741.8	741.7	740.9	740.0	739.1	738.3	738.2	738.1
120°	798.5	800.5	802.5	804.6	804.8	803.0	801.3	799.6	798.0	797.6	797.3
122.5°	857.6	859.1	860.6	862.1	862.4	861.5	860.6	859.8	858.9	858.0	857.1
125°	948.2	949.3	950.3	951.3	951.4	950.8	950.1	949.4	948.8	947.4	946.0
127.5°	1033.4	1035.6	1037.7	1040.0	1040.7	1039.9	1039.2	1038.4	1037.6	1035.7	1033.9
130°	1090.0	1092.7	1095.4	1098.1	1098.9	1097.9	1096.9	1095.9	1094.9	1093.6	1092.2
132.5°	1146.0	1148.7	1151.4	1154.2	1155.2	1154.4	1153.7	1152.9	1152.2	1150.5	1148.9
135°	1230.9	1232.9	1235.0	1237.1	1237.9	1237.6	1237.2	1236.9	1236.6	1235.2	1233.9
137.5°	1309.8	1311.5	1313.2	1314.8	1316.2	1317.1	1317.9	1318.8	1319.7	1318.3	1316.9
140°	1364.6	1366.3	1368.0	1369.7	1370.7	1371.1	1371.4	1371.7	1372.1	1371.7	1371.4
142.5°	1414.5	1416.2	1418.0	1419.7	1420.8	1421.4	1422.0	1422.6	1423.2	1422.9	1422.6
145°	1491.6	1492.2	1492.9	1493.6	1494.4	1495.4	1496.4	1497.4	1498.4	1498.1	1497.7
147.5°	1560.2	1561.5	1562.8	1564.0	1565.0	1566.0	1566.9	1567.8	1568.8	1568.8	1568.8
150°	1607.3	1607.9	1608.6	1609.3	1609.9	1610.6	1611.3	1611.9	1612.7	1612.7	1612.7
152.5°	1646.5	1647.5	1648.4	1649.3	1650.0	1650.4	1650.8	1651.2	1651.6	1652.2	1652.7
155°	1707.1	1707.1	1707.1	1707.1	1707.3	1707.6	1707.9	1708.3	1708.6	1710.0	1711.3
157.5°	1759.1	1758.7	1758.3	1757.9	1757.8	1758.1	1758.3	1758.6	1758.9	1760.3	1761.7
160°	1791.7	1791.0	1790.3	1789.7	1789.3	1789.3	1789.3	1789.3	1789.3	1791.0	1792.7
162.5°	1820.7	1819.7	1818.8	1817.9	1817.5	1817.8	1818.1	1818.3	1818.6	1820.3	1821.9
165°	1858.4	1857.3	1856.3	1855.3	1854.8	1854.8	1854.8	1854.8	1854.8	1856.8	1858.9
167.5°	1888.1	1886.8	1885.4	1884.1	1883.6	1883.8	1884.1	1884.4	1884.6	1886.7	1888.9
170°	1905.2	1903.9	1902.5	1901.2	1900.5	1900.5	1900.5	1900.5	1900.5	1902.9	1905.2
172.5°	1918.6	1917.2	1915.9	1914.6	1913.9	1913.9	1913.9	1913.9	1913.9	1916.0	1918.0
175°	1932.7	1931.3	1930.0	1928.5	1927.9	1927.9	1927.9	1927.9	1927.9	1930.0	1932.0
177.5°	1938.7	1937.6	1936.5	1935.4	1934.9	1934.9	1934.9	1934.9	1934.9	1936.5	1938.1
180°	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1148.3	1148.7	1153.4	1156.8	1155.1	1157.2	1158.0
5°	1254.6	1273.6	1283.6	1291.0	1291.6	1292.1	1296.4
7.5°	1405.2	1425.6	1440.6	1463.2	1470.0	1477.6	1475.4
10°	1515.2	1545.3	1571.2	1585.0	1599.8	1621.4	1604.1
12.5°	1618.0	1671.4	1710.8	1732.2	1746.2	1750.5	1741.9
15°	1787.5	1857.2	1894.8	1893.7	1941.4	1962.0	1929.7
17.5°	1942.9	2007.3	2058.9	2085.4	2125.0	2133.7	2129.7
20°	2038.1	2108.4	2148.6	2194.0	2214.6	2233.1	2236.3
22.5°	2120.1	2183.2	2226.3	2264.2	2281.5	2290.3	2295.5
25°	2204.6	2254.3	2280.2	2293.4	2298.1	2297.1	2290.3
27.5°	2198.8	2202.6	2174.0	2146.1	2121.0	2092.7	2083.0
30°	2141.7	2097.3	2018.0	1973.1	1906.9	1854.6	1875.7
32.5°	1991.6	1903.2	1814.1	1715.9	1634.6	1611.4	1588.1
35°	1699.7	1544.3	1453.4	1347.6	1305.4	1263.0	1234.0
37.5°	1375.1	1254.9	1147.0	1077.8	1035.5	1008.8	994.3
40°	1189.0	1080.7	991.8	935.7	903.5	873.4	869.2
42.5°	1040.6	939.8	872.9	828.3	797.4	784.6	775.3
45°	852.2	781.9	737.0	705.3	684.7	676.7	666.1
47.5°	721.3	671.7	637.9	616.3	600.8	594.9	594.0
50°	648.1	606.9	582.1	565.1	553.0	550.9	542.4
52.5°	593.2	557.4	538.1	523.3	514.5	508.6	506.0
55°	514.9	491.1	473.7	465.2	458.4	452.5	452.5
57.5°	450.5	430.7	419.1	411.9	409.8	405.7	403.0
60°	410.8	393.8	384.9	378.5	374.4	374.9	370.1
62.5°	371.8	360.9	352.3	346.0	340.9	341.0	341.3
65°	316.7	308.2	301.8	299.7	296.6	292.9	294.0
67.5°	268.3	260.4	255.5	251.9	250.9	248.8	251.9
70°	233.7	227.8	224.2	221.0	219.9	220.5	223.1
72.5°	202.0	197.8	195.4	193.9	191.6	191.7	193.5
75°	158.6	155.4	153.3	151.7	151.2	151.2	151.2
77.5°	116.5	115.8	114.8	112.5	112.6	113.2	113.3
80°	92.0	90.4	89.9	88.9	87.3	86.1	88.9
82.5°	68.8	67.2	66.7	66.4	63.9	63.7	65.9
85°	37.0	35.4	36.0	35.4	35.4	34.9	34.9
87.5°	21.2	21.1	20.9	21.4	21.1	20.8	21.8
90°	40.6	42.0	43.0	43.6	44.3	45.0	45.6
92.5°	61.7	62.8	63.1	62.7	62.3	61.9	61.5
95°	116.7	118.1	118.8	118.8	118.8	118.8	118.8
97.5°	181.0	182.6	183.3	183.2	183.0	182.9	182.8
100°	226.9	227.9	228.7	229.4	230.1	230.8	231.5
102.5°	280.5	281.6	282.0	281.9	281.7	281.6	281.4
105°	359.4	359.4	359.7	360.4	361.1	361.7	362.4
107.5°	447.0	448.1	448.4	448.0	447.6	447.2	446.8
110°	505.0	506.4	506.8	506.0	505.4	504.7	504.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	563.1	564.7	565.5	565.4	565.2	565.1	564.9
115°	649.7	650.1	650.1	649.7	649.4	649.0	648.7
117.5°	738.1	738.0	737.5	736.5	735.6	734.7	733.7
120°	797.0	796.6	796.1	795.5	794.8	794.1	793.3
122.5°	856.3	855.4	854.4	853.5	852.5	851.6	850.6
125°	944.6	943.3	941.9	940.6	939.3	937.9	936.5
127.5°	1032.0	1030.1	1028.3	1026.8	1025.2	1023.7	1022.1
130°	1090.9	1089.5	1087.6	1085.3	1082.9	1080.6	1078.1
132.5°	1147.3	1145.7	1144.0	1142.2	1140.3	1138.4	1136.6
135°	1232.4	1231.1	1230.1	1229.4	1228.7	1228.1	1227.4
137.5°	1315.5	1314.0	1312.6	1311.3	1310.1	1308.8	1307.5
140°	1371.1	1370.7	1369.4	1367.0	1364.6	1362.2	1359.9
142.5°	1422.2	1421.9	1420.8	1419.0	1417.1	1415.3	1413.5
145°	1497.4	1497.1	1496.2	1494.9	1493.6	1492.2	1490.9
147.5°	1568.8	1568.8	1567.8	1565.8	1563.8	1561.7	1559.6
150°	1612.7	1612.7	1611.6	1609.6	1607.6	1605.6	1603.6
152.5°	1653.3	1653.9	1653.3	1651.4	1649.7	1647.9	1646.2
155°	1712.6	1714.0	1713.5	1711.1	1708.8	1706.4	1704.0
157.5°	1763.1	1764.5	1764.3	1762.4	1760.5	1758.6	1756.8
160°	1794.4	1796.0	1796.2	1794.9	1793.5	1792.2	1790.8
162.5°	1823.6	1825.3	1825.1	1822.9	1820.8	1818.6	1816.4
165°	1860.9	1862.9	1862.8	1860.4	1858.1	1855.6	1853.3
167.5°	1891.0	1893.0	1893.0	1891.0	1888.9	1886.7	1884.6
170°	1907.6	1910.0	1910.0	1907.6	1905.2	1902.9	1900.5
172.5°	1920.2	1922.3	1922.2	1919.8	1917.4	1915.0	1912.7
175°	1934.0	1936.0	1935.8	1933.5	1931.1	1928.7	1926.4
177.5°	1939.7	1941.4	1941.3	1939.3	1937.4	1935.6	1933.7
180°	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5	1938.5

(END OF REPORT)